

Date: March 07, 2024

8th-Grade Proficiency Test (1800s)



by Lord Madox

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Mathematics:

1. Arithmetic:

- Calculate the sum of 3,456 and 2,789:

[Your Answer] _____

- Divide 9,876 by 18:

[Your Answer] _____

- Express $5/8$ as a decimal:

[Your Answer] _____

2. Geometry:

- Define what an isosceles triangle is:

[Your Answer] _____

- Calculate the area of a rectangle with a length of 12 units and a width of 8 units:

[Your Answer] _____

3. Word Problems:

- A farmer has 36 acres of land. If he wants to divide it equally among 4 fields, how many acres will each field have?

[Your Answer] _____

Language Arts:

4. Grammar and Spelling:

- Correct the following sentence: "Their going to the park."

[Your Answer] _____

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- Spell the word “necessary”:

[Your Answer] _____

5. Reading Comprehension:

- Certainly, here is a more scholarly phrasing of your question:
- “What professional pursuits did Abraham Lincoln engage in prior to his ascension to the role of the 16th President of the United States, a position of significant authority and influence?”

[Your Answer] _____

6. Literature:

- Who wrote the play “Romeo and Juliet”?

[Your Answer] _____

History and Social Studies:

7. American History:

- Who was the first President of the United States?

[Your Answer] _____

- Describe the significance of the Louisiana Purchase:

[Your Answer] _____

8. Geography:

- Locate the Mississippi River on a map:

[Your Answer] _____

- Name three European countries:

[Your Answer] _____

9. World History:

- What major event led to the decline of the Roman Empire?

[Your Answer] _____

- Who was the Egyptian queen associated with Mark Antony?

[Your Answer] _____

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Science:

10. Physics:

- Explain Newton's three laws of motion:

[Your Answer] _____

- What is the difference between potential energy and kinetic energy?

[Your Answer] _____

11. Biology:

- Define photosynthesis:

[Your Answer] _____

- Name three major organs in the human body:

[Your Answer] _____

12. Chemistry:

- What is the atomic number of carbon?

[Your Answer] _____

- Identify a common acid found in citrus fruits:

[Your Answer] _____

Bonus Questions:

13. Fine Arts:

- Who painted the famous artwork "Starry Night"?

[Your Answer] _____

14. Civics:

- What are the three branches of the United States government?

[Your Answer] _____

15. Health and Hygiene:

- Explain the importance of handwashing in preventing diseases:

[Your Answer] _____

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ANSWERS PAGE

Mathematics:

- Arithmetic:
 - The sum of 3,456 and 2,789 is
 - $3,456 + 2,789 = 6,245$
 - .
 - When you divide 9,876 by 18, you get
 - $\frac{9,876}{18} = 549$
 - .
 - The decimal equivalent of $\frac{5}{8}$ is
 - $\frac{5}{8} = 0.625$
 - .
- Geometry:
 - An isosceles triangle is a triangle that has two sides of equal length.
 - The area of a rectangle with a length of 12 units and a width of 8 units is
 - $12 \times 8 = 96$
 - square units.
- Word Problems:
 - If a farmer divides his 36 acres of land equally among 4 fields, each field will have
 - $\frac{36}{4} = 9$
 - acres.

Language Arts:

- Grammar and Spelling:
 - The correct sentence is: "They're going to the park."
 - The correct spelling of the word is: "necessary".
- Reading Comprehension:
 - Before becoming the 16th President of the United States, Abraham Lincoln held several jobs. He co-owned a general store¹, worked as a boatman, store clerk, and surveyor². He also served as a militia soldier during the Black Hawk War². Lincoln then taught himself law, becoming a lawyer in Illinois²³. He was admitted to the bar in 1837³. He also served in the Illinois Legislature, being elected in 1834 and reelected in 1836, 1838, 1840, and 1844².
- Literature:
 - The play "Romeo and Juliet" was written by William Shakespeare.

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History and Social Studies:

- American History:
 - The first President of the United States was George Washington.
 - The Louisiana Purchase was significant because it doubled the size of the United States, removed France as a potential threat, and provided a large area for westward expansion.
- Geography

The geographical coordinates of the Mississippi River, which have remained consistent since the 1700s, are as follows:

- The source of the river, Lake Itasca in Minnesota, is located at approximately **47°14'23"N** latitude and **95°12'27"W** longitude¹.
- The mouth of the river, where it empties into the Gulf of Mexico near Pilottown, Louisiana, is located at approximately **29°09'04"N** latitude and **89°15'12"W** longitude².

These coordinates represent the northernmost and southernmost points of the Mississippi River. The river flows generally south, traversing several U.S. states along its course².

- Three European countries are France, Germany, and Italy.
- World History:
 - The major event that led to the decline of the Roman Empire was the invasion by the Germanic tribes.
 - The Egyptian queen associated with Mark Antony was Cleopatra.

Science:

- Physics:
 - Newton's three laws of motion are:
 1. An object at rest tends to stay at rest and an object in motion tends to stay in motion with the same speed and in the same direction unless acted upon by an unbalanced force (Law of Inertia).
 2. Force is equal to the change in momentum per change in time. For a constant mass, force equals mass times acceleration ($F = ma$).
 3. For every action, there is an equal and opposite reaction.
 - Potential energy is the stored energy an object has because of its position or state, while kinetic energy is the energy of an object in motion.
- Biology:
 - Photosynthesis is the process by which green plants and some other organisms use sunlight to synthesize foods with the help of chlorophyll pigments. In this process, carbon dioxide and water are converted into glucose and oxygen.
 - Three major organs in the human body are the heart, brain, and lungs.

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- Chemistry:
 - The atomic number of carbon is 6.
 - A common acid found in citrus fruits is citric acid.

Bonus Questions:

- Fine Arts:
 - The famous artwork “Starry Night” was painted by Vincent van Gogh.
 - Civics:
 - The three branches of the United States government are the legislative, executive, and judicial branches.
- Health and Hygiene:
 - Handwashing is important in preventing diseases because it removes germs and bacteria from our hands that can cause illness. It is especially important before eating, after using the restroom, and after touching surfaces that may be contaminated.

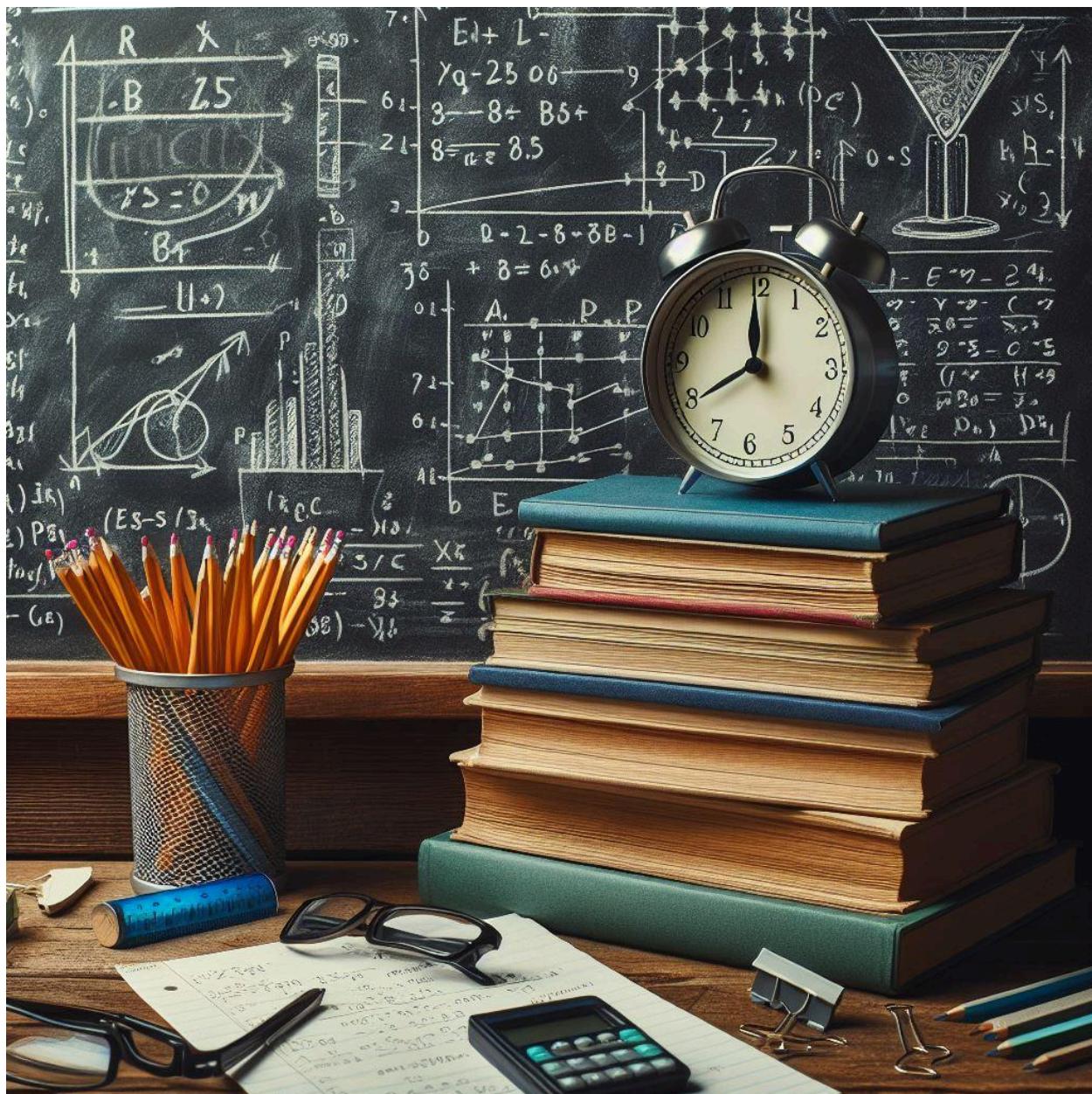


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